

2011-04-05 Tuesday Morning Notes

Monday, April 04, 2011
1:07 PM

Stacking and Transfers

- Stacked 26.7mA/hr with a production of 21.96 pbars/Mp with 8.3 Tp on target.
 - Overnight with \$29-only: 27.0mA/hr with a production of 21.7 pbars/Mp with 8.35 Tp on target.
 - With SY120: 25.7mA/hr with a production of 22.9 Pbars/Mp with 8.33 Tp on target.
- Unstacked 716E10 in 79 transfers over 24 sets with an overall efficiency of 95.6%
 - Take out transfer 23891 from 163mA and 23902 from 62mA, we get 96.1%

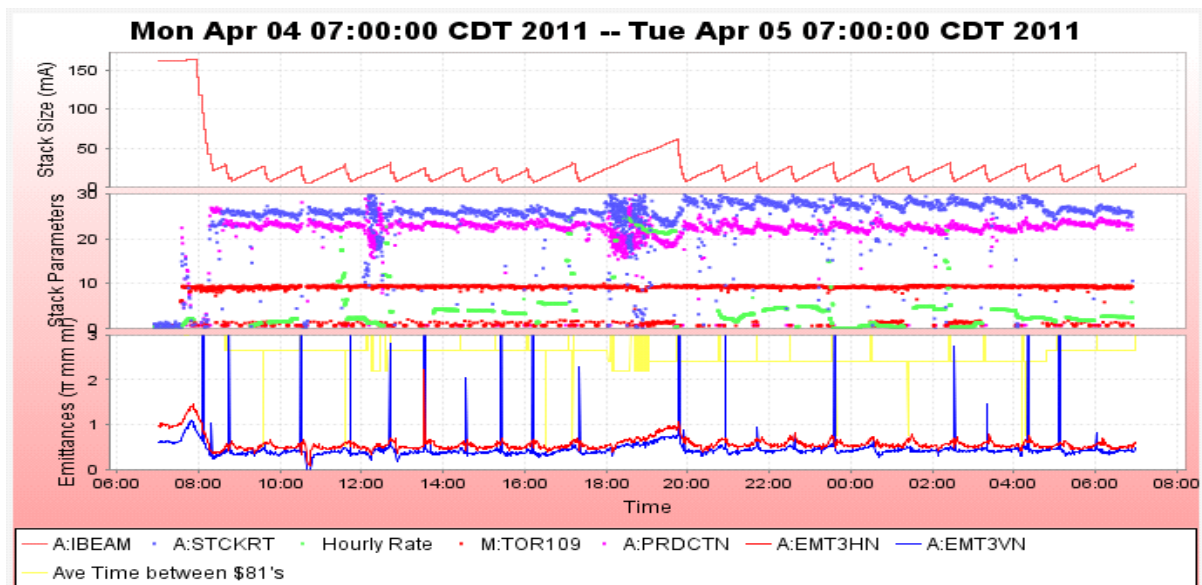
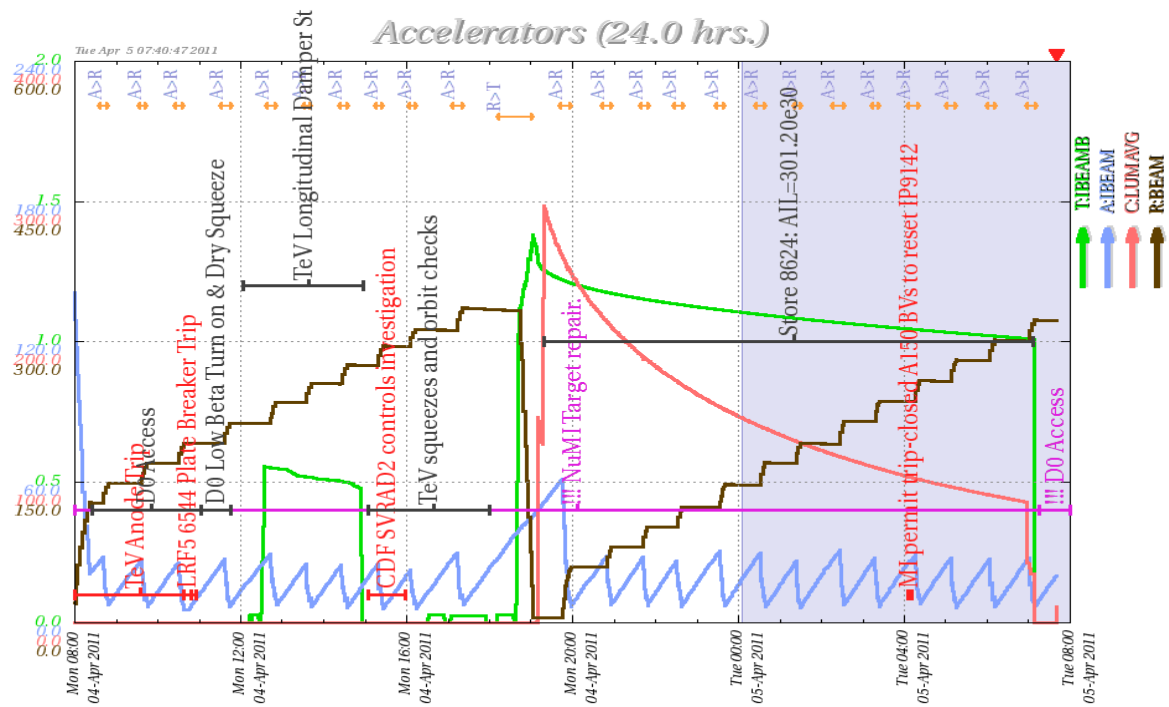
Operational happenings

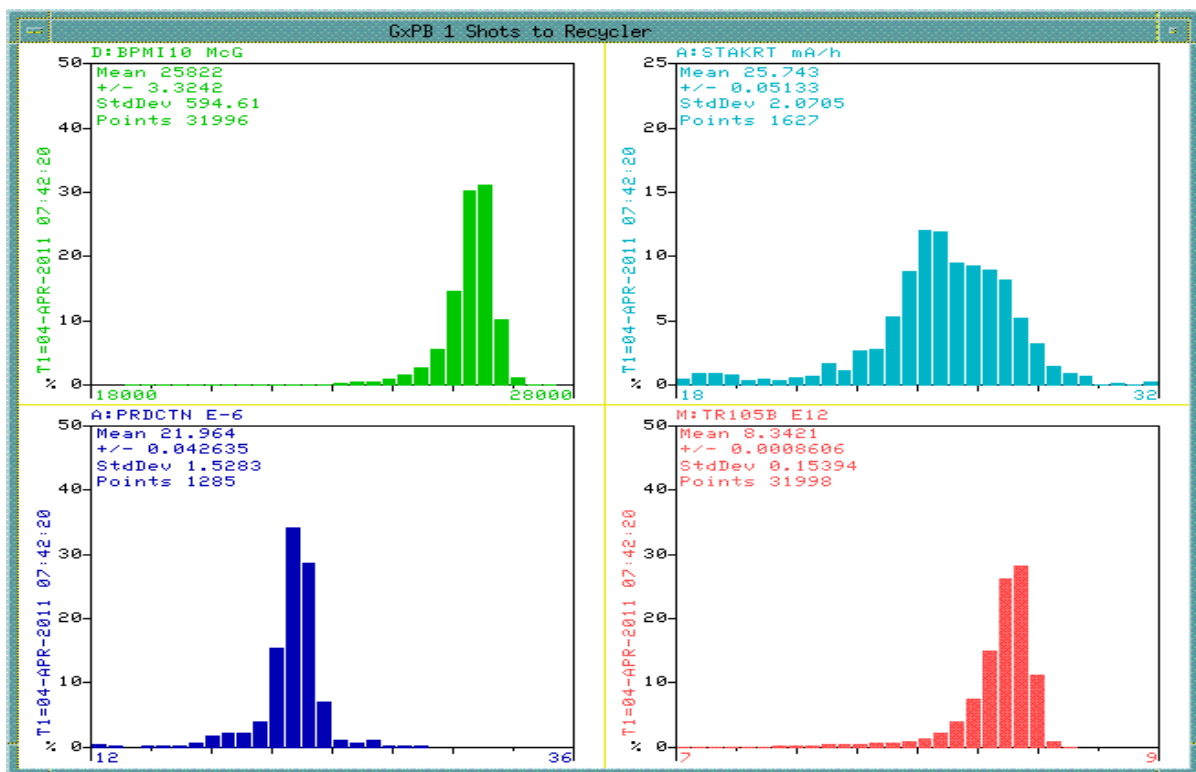
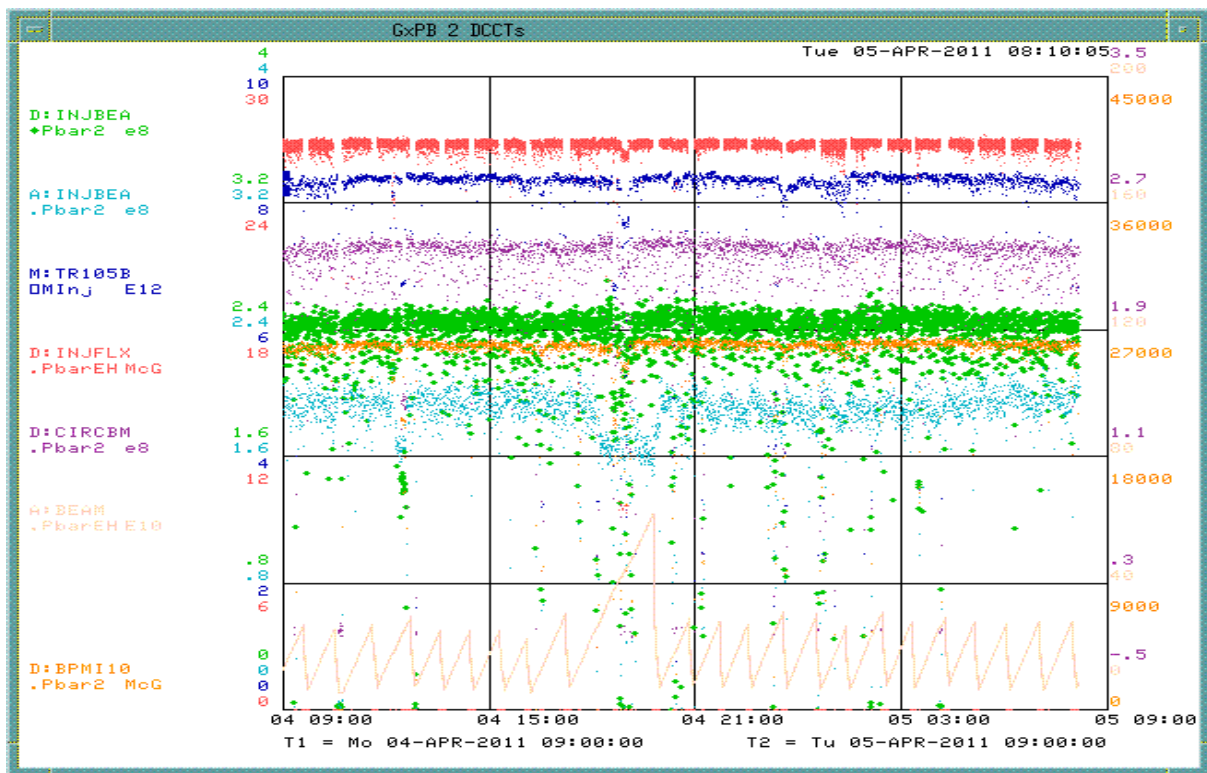
- Modified chilled water temperature regulation script to better handle temperatures when beam is established after a period of downtime.
- The collimator flow meter D:PMWM3 has been coming into alarm. Flow is currently about 3.95 gpm. Normally 4.2 gpm. This meter and one on the lse skid should be changed during some naturally occurring downtime.

Numbers

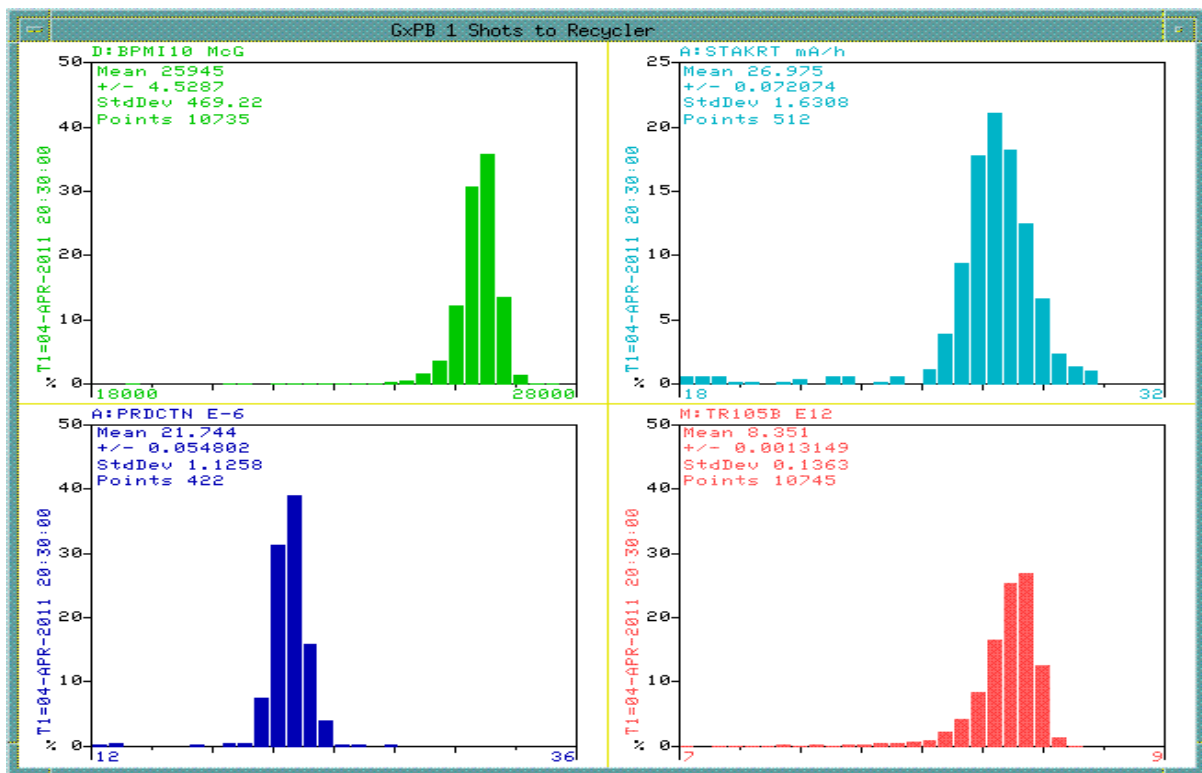
- Stacking
 - Pbars stacked: 581.43 E10
 - Time stacking: 23.73 Hr
 - Average stacking rate: 24.50 E10/Hr
- Uptime
 - Number of pulses while in stacking mode: 33129
 - Number of pulses with beam: 32101
 - Fraction of up pulses was: 96.90%
- The uptime's effect on the stacking numbers
 - Corrected time stacking: 23.00 Hr
 - Possible average stacking rate: 25.28 E10/Hr
 - Could have stacked: 600.05 E10/Hr
- Recycler Transfers
 - Pbars sent to the Recycler: 684.54 E10
 - Number of transfers : 76
 - Number of transfer sets: 24
 - Average Number of transfer per set: 3.17
 - Time taken to shoot including reverse proton tuneup: 00.27 Hr
 - Transfer efficiency: 94.95%
- Other Info
 - Average POT : 8.34 E12
 - Average production: 21.73 pbars/E6 protons

Plots

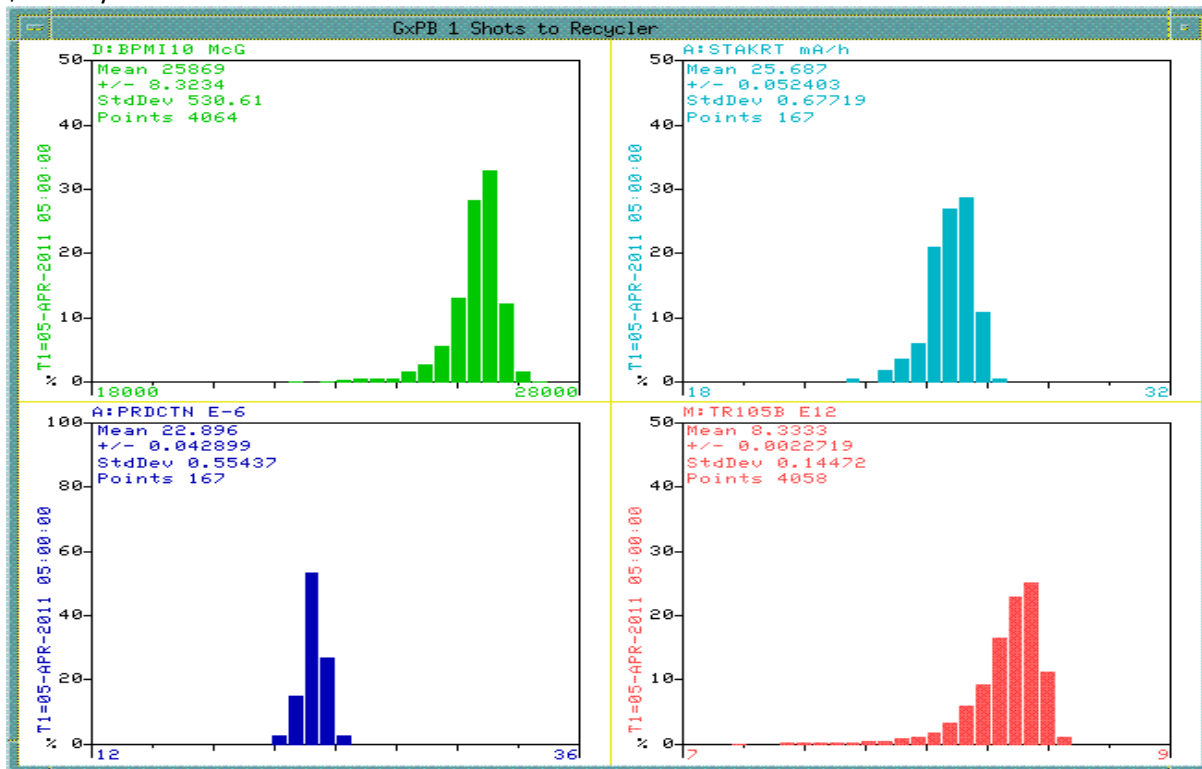




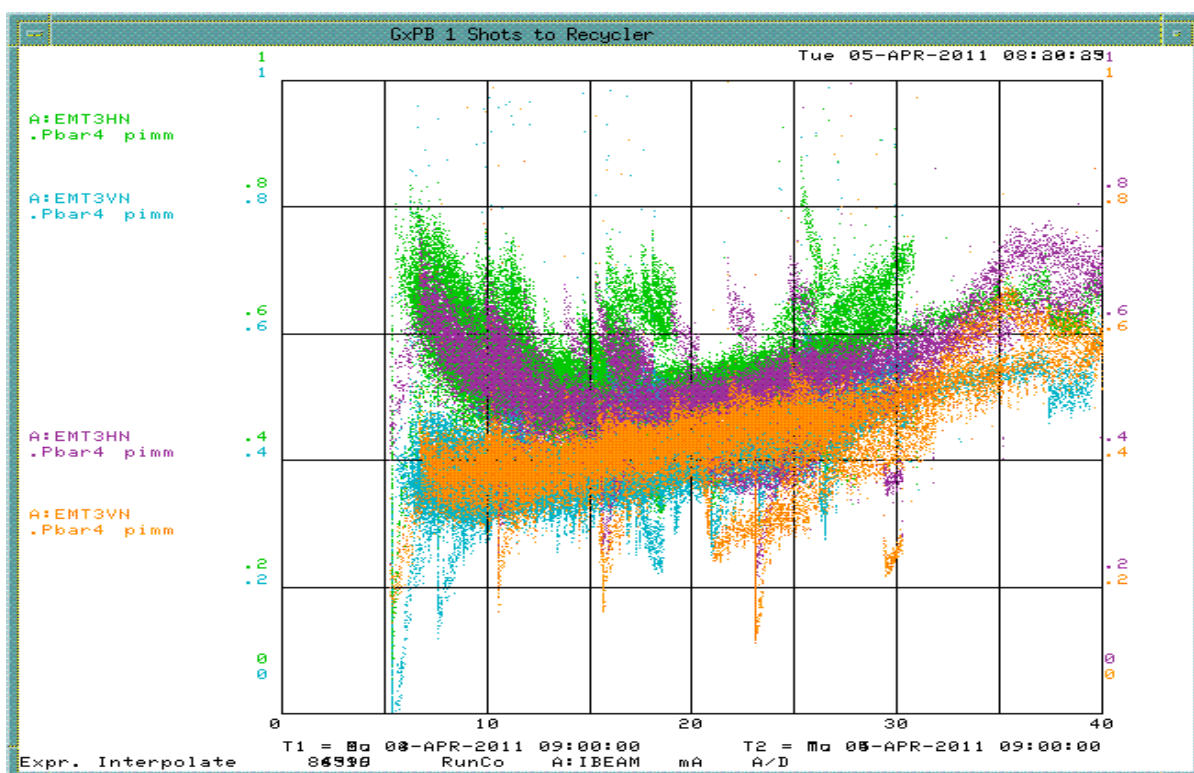
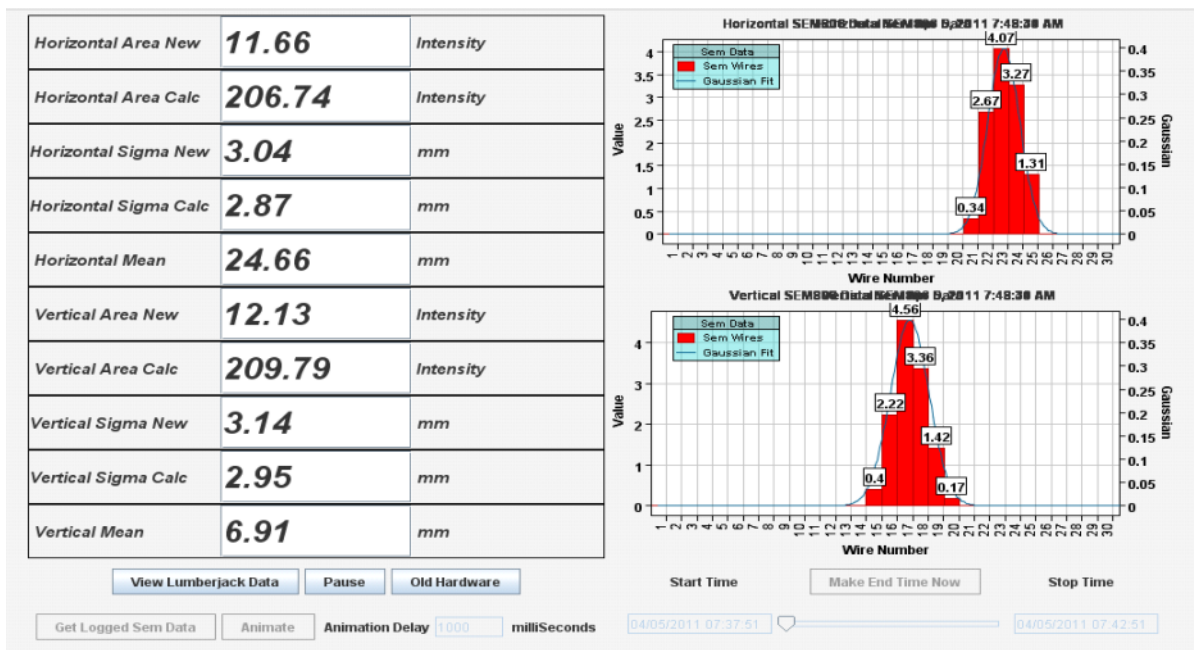
Stacking over 24 hours



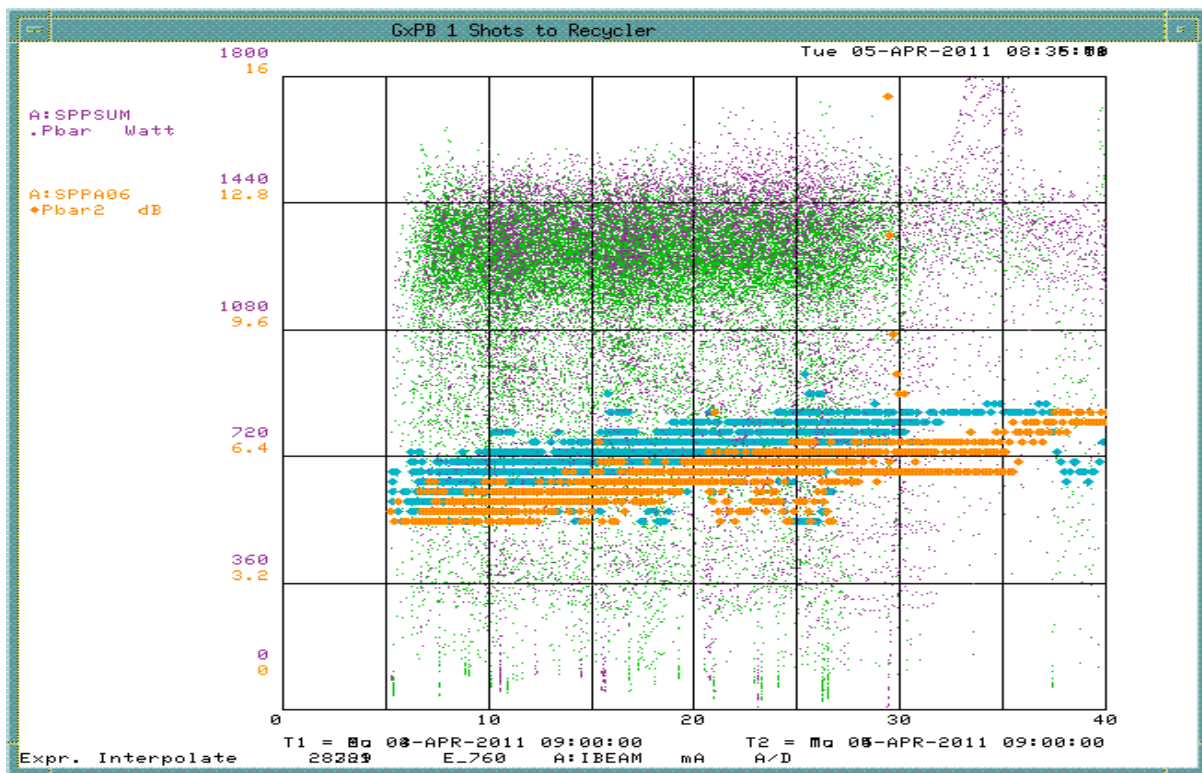
\$29-only



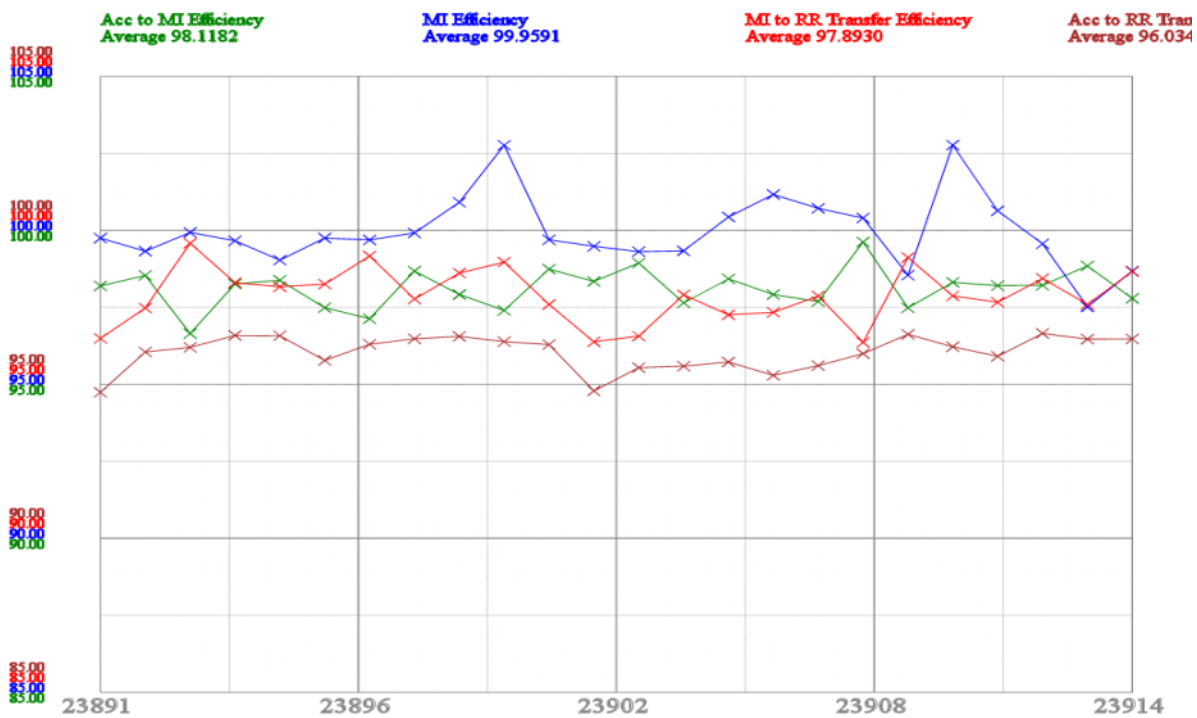
With SY120



Stack size vs emittance (green/cyan last 24 hours, purple/orange previous 24 hours)



Green/cyan past 24 hours. Purple/orange previous 24 hours

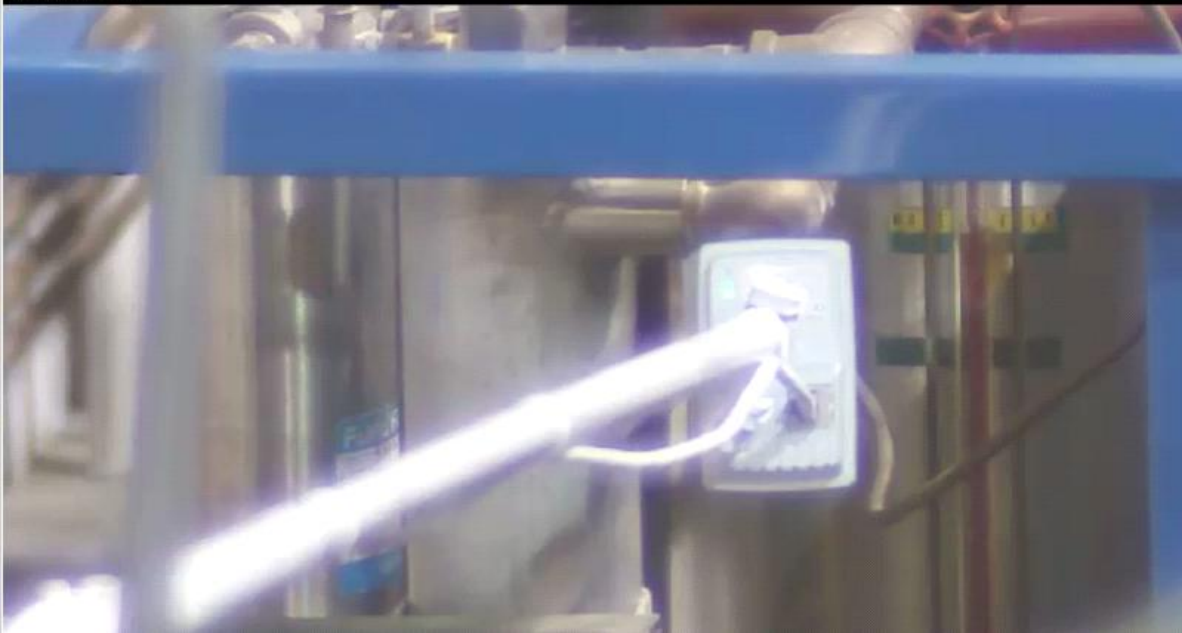


Column 1 Number _0_Pbar Transfer Shot #	Column 4 Number_3 Transfer Time	Column 21 Number _20_A-I BEAMB sampled on #91 (A-BEA M7), E10	Column 22 Number _21_A-I BEAMB sampled on #94 (A-BEA M9), E10	Unstacked (mA)	Column 23 Number _22_R-B EAMS (R-BEA ME0(I)) pre sler E10	Column 24 Number _23_R-B EAM (R-BEA ME0(I)) post sler, E10	Stashed	Acc to RR Eff	Acc to MI Eff	Acc to MI2 Eff	Acc to MI * Acc to MI2 Efficiency	Trans fers	Sets	Column 5 Number _4_Acc Horizontal Emittanc e	Column 6 Number _5_Acc Vertical Emittanc e	Column 8 Number _7_Acc Longitu dinal Emittanc e	
Totals ==>				716.22		684.41		95.56%	98.08%	97.88%	96.01%	79	24	5.7067	4.1594	1.9601	
Daily Average ==>				716.22		684.41						79	24				
23914	Tuesday, April 05, 2011	7:00	28.01	6.41	24.27	300.88	323.71	23.41	96.48%	98.06%	96.25%	94.39%	3	1	5.069	3.88	1.955
23913	Tuesday, April 05, 2011	6:03	27.32	6.55	23.41	279.93	302.13	22.60	96.55%	98.77%	96.94%	95.74%	3	1	5.124	3.921	1.97
23912	Tuesday, April 05, 2011	5:07	27.65	6.29	23.97	258.14	280.84	23.16	96.63%	97.77%	97.42%	95.24%	3	1	5.195	3.942	1.946
23911	Tuesday, April 05, 2011	4:16	29.08	7.66	23.74	236.40	258.84	22.79	96.00%	98.48%	98.49%	97.00%	3	1	5.611	4.618	1.967
23910	Tuesday, April 05, 2011	3:17	27.79	6.85	23.19	215.11	237.07	22.29	96.15%	98.37%	99.86%	98.23%	3	1	5.486	4.018	1.976
23909	Tuesday, April 05, 2011	2:27	30.98	7.45	25.74	191.15	215.66	24.86	96.58%	97.42%	96.11%	93.63%	3	1	5.597	4.154	1.965
23908	Tuesday, April 05, 2011	1:23	26.31	6.30	22.22	170.77	191.73	21.29	95.81%	99.46%	99.40%	98.86%	3	1	6.036	4.206	1.949
23907	Tuesday, April 05, 2011	0:32	30.31	6.46	25.44	147.33	171.25	24.30	95.52%	97.67%	97.88%	95.60%	3	1	5.985	4.4	1.95
23906	Monday, April 04, 2011	23:33	30.85	6.62	26.05	123.45	147.82	24.78	95.14%	98.14%	99.01%	97.17%	3	1	6.084	4.619	1.938
23905	Monday, April 04, 2011	22:32	27.14	6.69	22.69	102.52	123.85	21.68	95.53%	98.16%	98.74%	96.93%	3	1	6.03	4.529	1.973
23904	Monday, April 04, 2011	21:42	27.99	7.18	23.07	81.15	102.84	22.05	95.55%	98.09%	97.17%	95.31%	3	1	6.051	4.265	1.962
23903	Monday, April 04, 2011	20:50	28.94	7.64	23.53	59.36	81.45	22.43	95.32%	98.91%	97.84%	96.77%	3	1	6.093	4.588	1.978
23902	Monday, April 04, 2011	19:46	61.98	6.72	59.21	5.68	59.78	55.71	94.08%	97.82%	97.53%	95.40%	3	1	6.999	5.021	1.917
23901	Monday, April 04, 2011	17:13	30.26	7.08	25.78	312.46	336.62	24.78	96.13%	98.29%	98.30%	96.62%	3	1	5.768	4.279	1.955
23900	Monday, April 04, 2011	16:05	22.49	5.64	19.45	295.21	313.56	18.75	96.38%	97.77%	100.29%	98.06%	3	1	5.296	3.664	1.97
23899	Monday, April 04, 2011	15:18	25.23	5.85	21.91	275.08	295.85	21.14	96.49%	98.13%	98.57%	96.72%	3	1	5.324	3.654	1.969
23898	Monday, April 04, 2011	14:26	25.27	6.31	21.55	255.28	275.70	20.76	96.31%	98.55%	98.99%	97.56%	3	1	5.362	3.723	2.006
23897	Monday, April 04, 2011	13:34	25.14	6.34	21.43	235.48	255.77	20.63	96.26%	97.35%	96.75%	94.18%	3	1	5.44	3.82	1.989
23896	Monday, April 04, 2011	12:43	29.67	7.49	24.78	212.78	236.00	23.69	95.60%	97.77%	97.98%	95.79%	3	1	5.791	4.266	1.978
23895	Monday, April 04, 2011	11:36	27.10	6.66	23.05	191.39	213.34	22.28	96.65%	98.32%	97.38%	95.75%	3	1	5.531	3.927	1.992
23894	Monday, April 04, 2011	10:30	25.75	5.43	22.60	170.31	191.85	21.79	96.39%	97.96%	97.98%	95.98%	3	1	4.952	3.572	1.965
23893	Monday, April 04, 2011	9:37	27.13	6.53	23.13	148.80	170.69	22.23	96.10%	97.35%	97.04%	94.47%	3	1	5.282	3.774	1.99
23892	Monday, April 04, 2011	8:41	28.13	7.52	23.14	127.58	149.33	22.21	96.00%	98.45%	97.33%	95.82%	3	1	5.289	3.839	2.006
23891	Monday, April 04, 2011	7:57	163.63	21.03	142.87	0.61	128.80	134.81	94.36%	97.98%	97.75%	95.78%	8	1	7.248	6.028	1.776

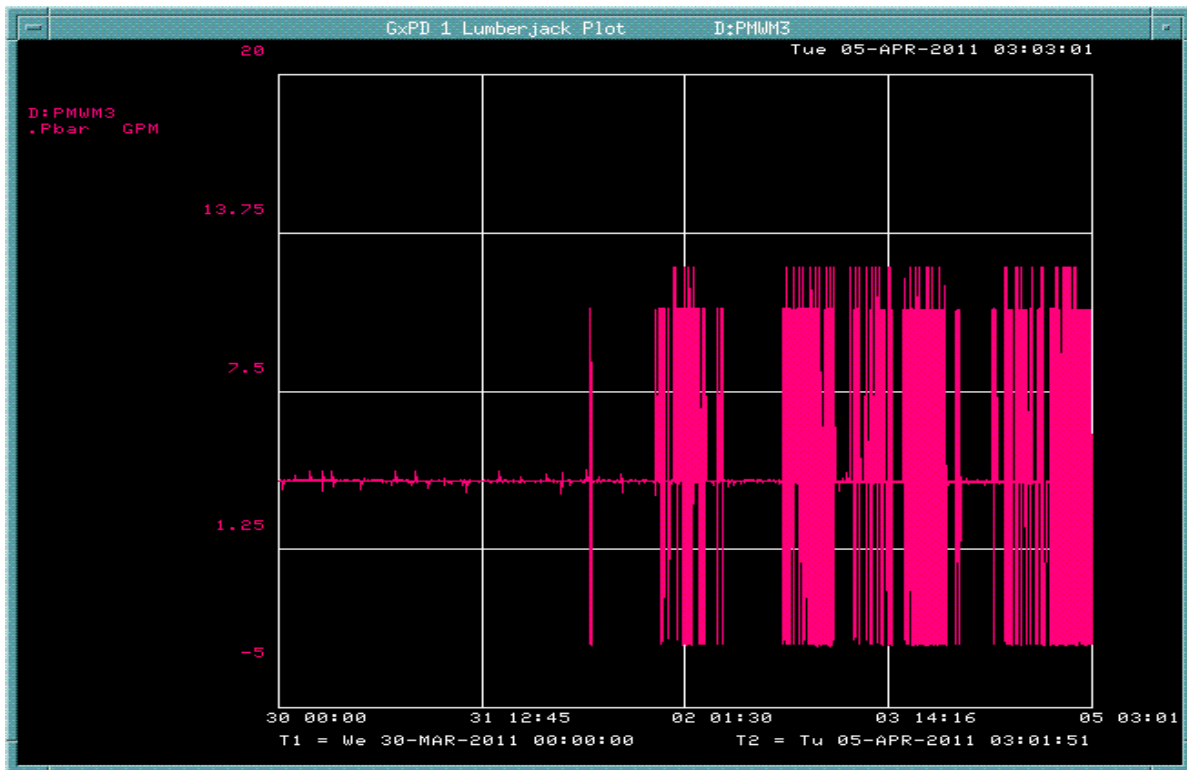
ap0sightglass



http://131.225.138.84/view/viewer_index.shtml?id=21



http://ap0sightglass-2.fnal.gov/view/viewer_index.shtml?id=15771



Alarms from 03:04:35 Sun Apr 3 2011 to 03:04:35 Tue Apr 5 2011 - Mozilla Firefox

File Edit View History Bookmarks Tools Help

[http://www-bd.fnal.gov/cgi-mcr/alarms.pl](#)
Google

E-Log RunCo Pbar Elog Machine Elogs Notify Phone Alarms Training Java Applications AD Ops

Alarms from 03:0... Run Coordinator E-lo... Pbar 2011 E-Log Mon... Linac E-Log Mon Apr ... Chip's Ops Schedule 2011 MCR E-Log Tue ...

ANALOG	DIGITAL	EVENT	BAD	GOOD	BIG CLEAR
Name	Time	RawData			
Sorted by time from 03:04:35 Sun Apr 3 2011 to 03:04:35 Tue Apr 5 2011					
D.PMWM3	18:37:31 Sun Apr 3 2011	0000033F			
D.PMWM3	19:29:04 Sun Apr 3 2011	0000031F			
D.PMWM3	20:55:01 Sun Apr 3 2011	0000031F			
D.PMWM3	23:41:17 Sun Apr 3 2011	000002FF			
D.PMWM3	00:36:29 Mon Apr 4 2011	0000031F			
D.PMWM3	00:48:35 Mon Apr 4 2011	000038DF			
D.PMWM3	12:24:41 Mon Apr 4 2011	000002EF			
D.PMWM3	12:32:35 Mon Apr 4 2011	000038CF			
D.PMWM3	18:19:39 Mon Apr 4 2011	0000046F			
D.PMWM3	18:40:15 Mon Apr 4 2011	000038EF			
D.PMWM3	19:37:21 Mon Apr 4 2011	0000031F			
D.PMWM3	20:23:55 Mon Apr 4 2011	000038FF			
D.PMWM3	22:25:31 Mon Apr 4 2011	00007FFF			
D.PMWM3	22:40:00 Mon Apr 4 2011	0000390F			
D.PMWM3	01:48:38 Tue Apr 5 2011	000029EF			
D.PMWM3	02:10:57 Tue Apr 5 2011	0000397F			
D.PMWM3	02:59:22 Tue Apr 5 2011	000071DF			

Device History

More than 2 times going bad
from 03:04:35 Sun Apr 3 2011
to 03:04:35 Tue Apr 5 2011

Device (No events or clears)	Number of Times Bad — Click to plot —
D.PMWM3	-- 11 --

Done